

# FIELD INVESTIGATIONS OF UNCONTROLLED HAZARDOUS WASTE SITES

## **FIT PROJECT**

TASK REPORT TO THE ENVIRONMENTAL PROTECTION AGENCY CONTRACT NO. 68-01-6056

ORIGINAL (Red)

A Preliminary Assessment of

Hercules, Incorporated
Hopewell, VA
Plant Landfill
TDD No. F3-8201-21
EPA No. VA-46

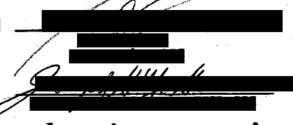
Preparation Date: March 18, 1982

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Presented to: Linda Y. Boornazian, Acting DPO

**EPA Region III** 

Prepared by:



ecology and environment, inc.

International Specialists in the Environmental Sciences

ORIGINAL (Red)

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#### SUMMARY AND RECOMMENDATIONS

ORIGINAL (Red)

#### Summary

The Hercules Hopewell Plant produces cellulose derivatives, fibres (cotton) and anionic polymers. The company operations an incinerator and landfill on the plant property. All burnable materials are incinerated and ash is disposed of in the company landfill. The landfill is operated as a trench fill for non-burnable trash, metal debris, and offspec anionic polymers. The company also disposes of emptied and cleaned drums from raw material shipment in the fill. Wastes such as contaminated cotton, wet cleanings, rejects etc. are disposed of at Shoosmith Landfill. The State of Virginia has permitted the fill and conducts periodic inspections. No problems have been identified with the operation of the site.

During the site visit it was learned that Hercules also operates a small sand bed used to evaporate a small quantity of solvents and cupric ammonia waste generated by a lab on site. The residues left on the sand bed are incinerated. However, the sand bed is lined with plastic which may allow a small quantity of solvents to pass through. This potential problem would best be addressed by the State during a RCRA or routine industrial inspection.

#### Recommendations

Due to the acceptable operation and nature of the fill, it is recommended that no further action be taken at this site and that this case be removed from the Dumpsite Program. However, it is recommended that the State be made aware of the possible improper handling of lab waste solvents.

# ORIGINAL (Red)

#### SITE BACKGROUND SUMMARY

#### History

The Hercules, Incorporated Hopewell Plant was built in 1916. Hercules purchased the facility in 1926 and produces cellulose derivatives, cotton fibres and anionic polymers. Prior to the Hercules operation the facility was operated as part of the DuPont Gun Cotton Facility which encompassed a good portion of the City of Hopewell.  $^1$ ,  $^2$ 

Hercules has been using on site disposal facilities since 1926. All materials disposed of on site have been classified as non-hazardous. Burnable trash, debris and wastes are incinerated on site in an "Air Curtain" or "Pit Type" incinerator. The incinerator ash has been filled on site. The landfill is located near the southwestern border of the property overlooking Cattail Creek. The materials disposed of in this fill area consist of metal debris, plastics, cellulose products (FDA approved), cardboard cartons and drums. 1, All drums are washed and rinsed in the production area and tagged for disposal. The drums are then crushed at the landfill and buried.<sup>2</sup>, <sup>3</sup> Off spec anionic polymers have also been disposed of in the landfill. This disposal has 2 been approved by the State Health Department and is performed so that the polymer is mixed with incinerator ash and other debris. Presently Hercules holds a State permit to operate a three acre landfill on site and is in compliance with all permit requirements. 1, 2 Past disposal prior to the State permitting program, took place on adjacent land which consists of approximately five acres.

In addition to the above mentioned on site disposal, the facility also maintains a lab solvent evaporation pit. The pit is approximately 20 feet x 20 feet x 3 feet, and consists of a plastic lined sand bed. Lab solvents and cupric ammonia are dumped on the bed. After the solvents have evaporated the residue is incinerated on site. $^2$ ,  $^3$ 

Hercules, Incorporated Hopewell, VA Plant Landfill TDD No. F3-8201-21 EPA No. VA-46 Site Background Summary Page Two

ORIGINAL (Red)

Liquid production wastes are either reclaimed or pass through a treatment plant prior to being discharged to the Regional Wastewater Treatment Plant. Sludges generated by the treatment process are stored in on-site lagoons. RCRA tests have been performed on this sludge and it doesn't meet the specifications of a hazardous waste characteristics, D001 through D017. Hercules, Incorporated has filed with EPA for permission to landfill these sludges according to State requirements. 1, 2

#### Geology/Hydrology

The Hercules, Incorporated Landfill is situated in an area where groundwater is estimated to be 20-40 feet below surface. The soil permeability is said to be moderate. Bedrock consists of unconsolidated material at a depth of greater than five feet. Groundwater is estimated to flow to the east-northeast. 1, 4 There are no groundwater wells on the facility or in the immediate area. 5

The landfill trench in operation is approximately twenty feet deep. The exposed cut showed clay loam soil the entire length of the cut. A small amount of standing water was noted in the trench. $^3$ 

#### Critical Environment

The Hercules facility is adjacent to Cattail Creek and Bailey's Creek. Both streams have minor wetlands associated with them and at the confluence of Baileys Creek and the James River minor tidal flats are encountered.<sup>3, 4</sup> Baileys Creek was contaminated with kepone from a P.O.T.W. discharge during the 1970's.

Hercules, Incorporated Hopewell, VA Plant Landfill TDD No. F3-8201-21 EPA No. VA-46 Site Background Summary Page Three

#### Waste Type and Quantity

Hercules, Incorporated has disposed of waste on site since 1926. The following breakdown of waste provides an estimate on waste and quantity:

Bulky ferrous metals - 2 tons/yr
Other ferrous metals - 1 ton/yr
Non-ferrous metals - 1 ton/yr
Incinerator ash - 12 tons/yr
Cellulosic sludge - 287 tons/yr
Off spec anionic polymers - occasional

Presently the cellulosic sludge is transported off-site and disposed of at Shoosmith Landfill. This sludge has been subjected to RCRA testing and does not qualify as a hazardous waste.  $^{1}$ ,  $^{2}$ 

#### Demographics

The Hercules, Incorporated facility is located in a heavy industrial section of the City of Hopewell. Although the entire area is served by public water supply, 23,000 - 24,000 people reside within a 3 mile radius of the site.<sup>5</sup>

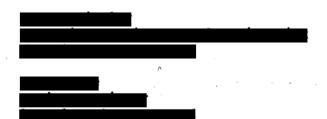
#### FIELD TRIP REPORT

#### Introduction

FIT Region III met with Hercules, Incorporated officials and conducted a cursory survey of the landfill site on January 26, 1982. The weather during the visit was breezy, low 30°'s and the ground was partially covered from recent snow and ice storms.

#### Contacts





#### Site Observations

- o Hercules, Incorporated provided several aerial photographs of their property. These photographs showed no areas which appeared to be used for disposal other than the areas permitted.
- o Landfill contained one active cell. Visible fill material consisted of ash, metal and fiber drums.
- o Active trench had a small area of standing water.
- o Excavated dirt was being stored and used as fill and capping material.
- o Incinerator was in operation.
- o Drum crusher was clear of liquids and no stains were noted.
- o Inactive fill area was graded and vegetated.
- o No leachate outbreakings were noted.
- HNU and company operated OVA readings were at background.
- o The solvent evaporation bed was ice and snow covered.
- o Mr. Kirtley stated that the caustic chlorine plant used to produce asbestos filters which were dewatered, deposited in plastic bags and fiber drums and were buried on site.

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# POTENTIAL HAZARDOUS WASTE SITE

REGION

SITE NUMBER (to be atsigned by Ha)

III IDENTIFICATION AND PRELIMINARY ASSESSMENT NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections. GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Efficient Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC-20460. I. SITE IDENTIFICATION A. SITE NAME B. STREET (or other identifier) Hercules Incorporated Plant Landfill P.O. Box 271 D. STATE E. ZIP CODE F. COUNTY NAME Hopewell 23860 Prince George G. OWNER/OPERATOR (II known) T. NAME 2. TELEPHONE NUMBER 804-541-4395 H. TYPE OF OWNERSHIP 2. STATE 3. COUNTY 4. MUNICIPAL 5. PRIVATE 6. UNKNOWN I. SITE DESCRIPTION acility produces cellulose derivatives and disposes of non-hazardous waste on site. J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.) K. DATE IDENTIFIED (mo., day, & yr.) Eckhardt 11/1/79 L. PRINCIPAL STATE CONTACT 1. NAME 2. TELEPHONE NUMBER Jim Saunders 804-786-7073 II. PRELIMINARY ASSESSMENT (complete this section last) A. APPARENT SERIOUSNESS OF PROBLEM 1. HIGH 2. MEDIUM 3. LOW X4 NONE 5. UNKNOWN B. RECOMMENDATION 1. NO ACTION NEEDED (no hazard) 2. IMMEDIATE SITE INSPECTION NEEDED 3. SITE INSPECTION NEEDED
a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: b. WILL BE PERFORMED BY: 4. SITE INSPECTION NEEDED (low priority) C. PREPARER INFORMATION 1. NAME 2. TELEPHONE NUMBER 3. DATE (mo., day, & yr.) Garth Glenn 609-665-1515 2/22/82 III. SITE INFORMATION A. SITE STATUS 1. ACTIVE (Those industrial or 3. OTHER (specify):
(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.) 2. INACTIVE (Inose sites which no longer receive 2. INACTIVE (Those municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if intrewestes.) quently.) B. IS GENERATOR ON SITE? \_\_\_ 1. NO 2. YES (specify generator's four-digit SIC Code): C. AREA OF SITE (in acres)
D. IF APPARENT SERIOUSNESS
DISPOSAL - 3 acres active. Latitude (deg...min...eec.) D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES 2. LONGITUDE (deg.-min.-sec.) approx. 5 acres inactive

Production facility.

E. ARE THERE BUILDINGS ON THE SITE!

2. YES (epocity):

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l e	. TRUCK		4. TAN	K, A	BOVE GROUND		. RECYCLING/RECO	VERY		4. SURFAC	E IMPOUNDMENT
┯	. PIPELINE		S. TAN	K. 80	LOW GROUND	X[	. CHEM./PHYS. TRE	ATME	NT	S. MIDNIGH	T DUMPING
٩	OTHER (specify):		6. OTH	ER (	specify):	4	BIOLOGICAL TRE	ATMEN	T.	6. INCINE	RATION
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	ASTE TYPE		· · · · · · · · · · · · · · · · · · ·	-	V. WASTE RELATI	ED	INFORMATION				
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3. V	NASTE CHARACTER	RISTICS									
	]1. UNKNOWN	]2. CORRO	SIVE 🔲	3. 10	GNITABLE4. R	AD	OACTIVE5. H	IGHLY	VOLA	TILE	
	6. TOXIC	7 REACT	IVE 🔀	8. 11	NERT9. F	LA	MMABLE				
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	10. OTHER (apecify	PRCRA Y			vastes leave s		<u> </u>			* <u>*                                  </u>	
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2.				easu	re)of waste by cate	gor		ate wi			r
MC	a. SLUDGE	b.	OIL	+-	c. SOLVENTS	_	d. CHEMICALS	AMC	e. SOL	IDS	f. OTHER
28	•			^'		<b> ^</b> ^		[ M(:)	-174 1		16+
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G	2) METALS SLUDGES	(2) O T H	ER(apecily	):	(2) NON-HALOGNED.	1	(2) PICKLING LIQUORS	(2)	ASBES	TOS	(2) HOSPITAL
Ç	3) POTW			F	(3) OTHER(epecify):		(9) CAUSTICS	(3)	MILLI	NG/ TAILINGS	(S) RADIOACTIV
,	4) A LUMINUM SLUDGE	a si a s			÷		(4) PESTICIDES	(4)	FERRO SMLTO	OUS . WASTES	(4) MUNICIPAL
<u>.</u>	8) OTHER <i>(epecify):</i>						(8) DYES/INKS			ERROUS I. WASTES	<b>Х</b> (в) отнек(ерес ferrous meta
	llulose f site	·				L	(6) CYANIDE	(°)	OTHER	(apecify):	3/tons yr.
	sposal					L	(7) PHENOLS				non-ferrous metals 1 to
							(8) HALOGENS				yr. 
						L	(9) PCB				incinerator 12 tons/yr
				1		1	(10) METALS	1			

		INFORMATION	

3. LIST SUBSTANCES OF GREATEST CONCER	

metals incinerator ash

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

ORIGINAL

(Red)

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		VI. HAZ	ARD DESCRIPTI	ON	And the second
A. TYPE OF HAZARD	POTEN- TIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo.,day,yn.)	E. REMARKS	
1. NO HAZARD	Χ			· · · · · · · · · · · · · · · · · · ·	
2. HUMAN HEALTH	-				
3. NON-WORKER INJURY/EXPOSURE					
WORKER INJURY					
S CONTAMINATION S OF WATER SUPPLY					
CONTAMINATION OF FOOD CHAIN					
7. CONTAMINATION OF GROUND WATER					
6. CONTAMINATION OF SURFACE WATER					
D. DAMAGE TO FLORA/FAUNA					
0. FISH KILL	*.				
11. CONTAMINATION OF AIR					
2. NOTICEABLE ODORS	· · · · · · · · · · · · · · · · · · ·				
S. CONTAMINATION OF SOIL		·			
4. PROPERTY DAMAGE					
5. FIRE OR EXPLOSION					
6. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS					
7. SEWER, STORM ORAIN PROBLEMS					
8. EROSION PROBLEMS		·			
9. INADEQUATE SECURITY					
0. INCOMPATIBLE WASTES	:				
1. MIDNIGHT DUMPING 2. OTHER (specify):		· · ·			
a. Cirian (specify).					
				·	

Continued From Front			F3-8201-21	VA-46	
	\	II. PERMIT INFO	RMATION		· · · · · · · · · · · · · · · · · · ·
A. INDICATE ALL APPLICABLE PER	RMITS HELD BY TH	E SITE.			
_	C PLAN	1 CTATE DEBMIT	******	SDH - 156	
	CAL PERMIT	5. RCRA TRANSPO			
	RA TREATER	The state of the s	•		
	· · · · ·				
	A Generator	VAD003121	928		ORICIAL
B. IN COMPLIANCE?  I. YES   2. NO		3. UNKNOWN			(Red)
2.40		J. UNKNOWN			and the second
4. WITH RESPECT TO (list regul	ation name & number	r):		<u>:</u>	
	VIII.	AST REGULATO	RY ACTIONS		
A. NONE B. YE	ES (summarise below	)			
					:
			· .		
	IX. INSPEC	TION ACTIVITY	(past or on-going)		
☐ A. NONE ☑ B. YE	S (complete itema 1,2	?,3, & 4 below)			
1. TYPE OF ACTIVITY	2 DATE OF PAST ACTION (mos, day, & yrs)	3. PERFORMED BY: (EPA/State)		4. DESCRIPTION	
State Compliance	Routine	State	Landfill	inspection.	
			· · · · · · · · · · · · · · · · · · ·		
	Y DEM	EDIAL ACTIVITY	(nest or on-doind		
	A. NEM	EDIAL ACTIVITY	(past of oil-going)	<u> </u>	
A. NONE B. YE	S (complete itema 1,	2, 3, & 4 below)			
1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)		4. DESCRIPTION	

EPA Form T2070-2 (10-79)

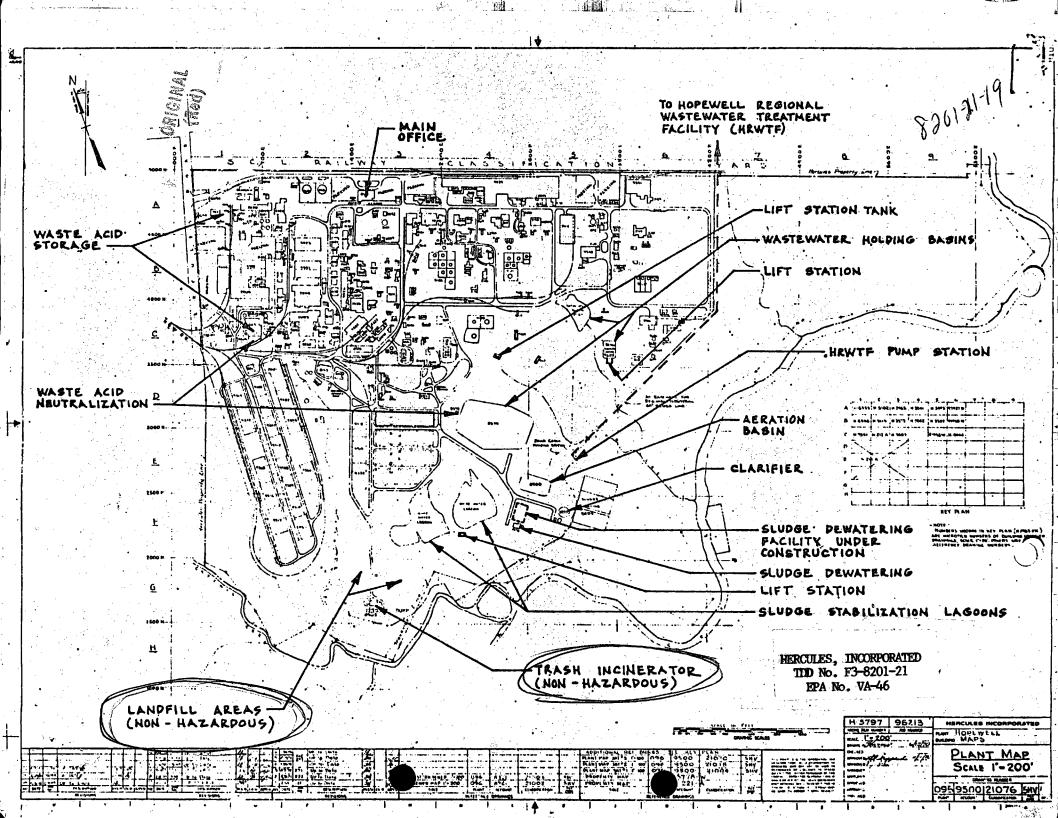
information on the first page of this form.

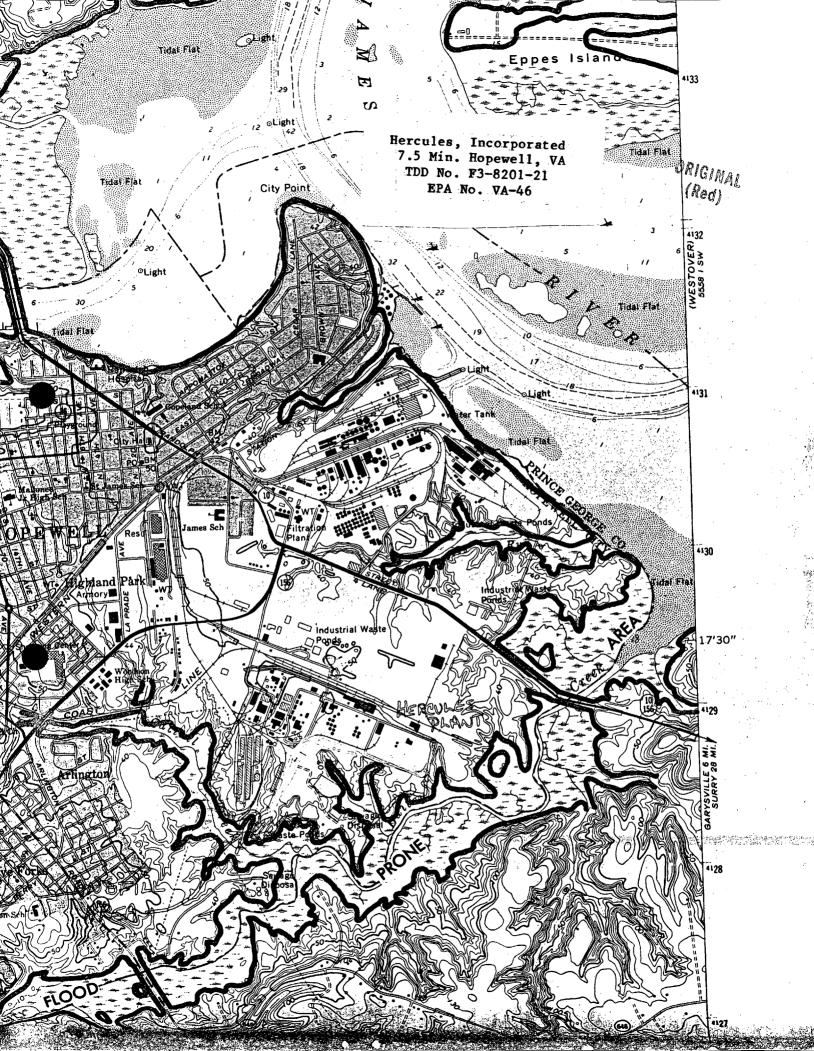
NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II)

### WORK SHEET FOR RATING DISPOSAL SITES

-			activ	e inactive & a	bandone	
Name of Site:	Hercules, I	ncorporated Plant Landfill	inact	ive (CIRCLE ON	IE)	
Location:	Hopewell, P		<del></del>	/ ORIGI	MAI	
Owner/Operator:	Hercules, I	ncorporated		IRa.	11	
Comments:	Site is a p	ermitted landfill that rece	ives non-	hazardous waste ເ	ňly.	
No problem has	been associat	ed with site.			- waster I was	
	-					
Prepared By:	Garth Glenn		On	February 26,	19 82	
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	_					
FACTO	OR .	OBS	ERVATION			
		DE GEDWOD G	•			
*		RECEPTORS				
Population withi	n 1000 foot	3	<del></del>	·		
Distance to Near		<u> </u>				
Drinking Water W		>3 miles				
Distance to Near		/J milles				
Off-Site Buildin		1/4 mile				
Land Use/Zoning	·6	industrial	<del> </del>			
Critical Environ	ment	minor wetlands	<del> </del>			
Use of Site by R		no				
Use of Nearest B		production facility		<del> </del>		
Presence of Publ			<del></del>			
Water Supplies		city water intakes in di	fferent b	asin		
Presence of Advifer			· · · · · · · · · · · · · · · · · · ·			
Recharge Area		no				
Presence of Transportation						
Routes		no				
Presence of Important			7			
Natural Resources		no	· .		·	
Other			<del></del>			
		PATHWAYS			-	
<u></u>		<del></del>		· · · · · · · · · · · · · · · · · · ·	· · ·	
Evidence of Cont		no	<del> </del>			
Type of Contamin		not applicable		<u> </u>		
Level of Contami		not applicable	<del></del>			
Distance to Near Surface Water	est	1,000 feet	,			
Depth to Ground Water		20-40 feet		·		
Net Precipitation		+2 inches				
Soil Permeability		moderate				
Bedrock Permeabi	<del>*</del>	moderate		<del></del>	<u></u>	
Depth to Bedrock		>5 feet (unconsolidated)		<del></del>		
Erosion and Runo		2 2 2 2 2 4 Mineral Post Conference	<del></del>			
Problems		no				
Susceptibility t	o Flooding	no	, . <del></del>			
Slope Instabilit		no		<del></del>		
Seismic Activity		no	<del></del>	<del></del>	-	
Other						
		PAGE 1 OF 2				

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### DUMPSITE SUMMARY SHEET

TDD	No. <u>F3-8201-21</u>
1:	Name and location of site: Hercules, Incorporated
	Hopewell, VA
	Plant Landfill
2.	EPA Case Number: VA-46
3.	Status of Site (Active - Inactive - Abandoned): Active
4.	Circle correct descriptions in parentheses:
	The site (presently) - previously but not longer - never - unknown )
	(generates - stores - transports - offers for transport - treats -
	disposes of) hazardous waste.
5.	RCRA Section 3010 notification - check status:
	a. A 3010 notification (has - has not ) been filed
	b. EPA ID Number: VAD003121928
	c. Notified as a (generator - TSD Facility - both).
6.	Describe, or list by four digit numbers shown on RCRA 3010 notification if
	appropriate, the hazardous wastes handled on site:
	RCRA regulated wastes are stored on site and offered for transport off site
	according to applicable regulations. Waste treatment sludges, initially
	classified as hazardous by Hercules, have been tested according to Federal Regs.
	and don't meet the characteristics for hazardous waste as defined in the
	Fed. Regs. Subpart C. Hercules has petitioned the EPA for permission to dispose
	of the sludges in a permitted landfill.
7.	Status of case in dump site program:
	PS - PA - SI - TD - FS - Referral - Filed
8.	Brief summary of potential environmental problems associated with the site:
	Only on site disposal is of non-hazardous material. Disposal is in such a way
	as to not cause environmental concerns.

8201-21-20

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#### REFERENCES

- 1. Virginia Department of Health Files.
- 2. Hercules, Incorporated Richard Marks, Thomas Kirtley and Russ Omate.
- 3. Observations.
- 4. S.C.S. & U.S.G.S.
- 5. Fred E. Hughes City of Hopewell Office of Engineering and Inspections.



## ecology and environment, inc.

8021 ROUTE 130, PENNSAUKEN, NEW JERSEY 08110, TEL. 609-665-1515

International Specialists in the Environmental Sciences

ORIGINAL (Red)

TO: FILE

FROM: GARTH GLENN

DATE:

SUBJECT: HERCULES HORPWELL PLANT LANDFILL VA-46

The following information was gathered from the Commonwealth of Virginia. Department of Health, Division of Solid and Hazardous Waste files:

.Company address is as follows:

Hercules Incorporated

P. O. Box 271

Hopewell, VA 23860

Thomas Kirtly, Supervisor and Environmental Engineer Na Phone: (804) 541-4395

.The Hercules Plant produce cellulose fiber products - FDA approved.

.March 29, 1974 Hercules Incorporated received a permit from the Health Department #156 to operate a 3-acre landfill on-site. .

.This landfill is to accept noncombustible trash, metal, inchrinator ash.

.The company also has on-site an inactive fill which was operated from 1926-1974.

.October 1978, the company received permission from the Health Department to dispose of 50,000 lbs of hercofloc anionic polymer which is a 🤊 copolymer made of acrylimide and acrylic acid which is used as a floculant in waste water treatment plants. This 50,000 lbs. of hercoflow were buried in the North end of the landfill.

.Hercules has an incinerator on-site to dispose of combustible wastes.

.In 1976 Hercules Incorporated notified the Health Department that they were upgrading their landfill to inculde a drum crusher and new operating procedures for better utilization of the fill. Please see attached information.

.Company has a treatment system on-line which discharges to the Hopewell Regional Waste Water Treatment Plant. The sludges from this treatment are disposed of at Shoosmith Incorporated.

1201-21-2

- .Please find a geological/hydrological assessment of landfill area in attached information.
- .Please find attached a 1975 waste survey which includes waste type and disposal methods.
- .Please find attached a map of the site.
- .State DEpartment of Health records show that on routine inspections performed by that Division that the site has always meet good criteria for operations.

mjo

recycled paper